

Process Skills Identification

Identify the main process skill needed to complete the underlined directions in each activity.

Process Skill	1. Candle	2. Velcro	3. Hinged Mirrors A	3. Hinged Mirrors B	4. Can of Ice	5. Wet Paper	6. Toy/Surfaces
Observing							
Questioning							
Hypothesizing							
Predicting							
Planning & Investigating							
Interpreting							
Communicating							

Directions for Activities at the Stations

What process skills would you use to carry out the directions in the underlined sentences?

1. Candle

Draw what you think the candle will look like when it's lit. Put labels on your drawing. Now light the candle.

Draw it again. What's different from your first drawing? Are there any details in this drawing that weren't labeled in the first drawing?

2. Velcro

Put two pieces of Velcro together. Try to part them. Try putting the pieces reversed, then crossways.

Make a series of drawings to show your ideas and findings about how Velcro works.

3. Hinged Mirror

Place the penny between the hinged mirrors so that reflections of the coin can be seen. Adjust the angle to 120 degrees and count the reflections. Repeat for angles of 30 degrees and 90 degrees.

A. Can you identify a pattern in the relationship between images and angles? If so, what is it?

B. Based on the patterns you observed, how many images would you expect to get at 60 degrees?

4. Can of Ice

Fill the can approximately halfway with ice cubes.

Look at the outside of the can.

Write down as many possible explanations as you can of what you see.

Before you leave, empty the ice into the original container and wipe off the can.

5. Wet Paper

Take a strip of paper and hold it vertically with one end in the water.

Watch what happens for about a minute.

Given your observations, what more do you want to know?

6. Toy on Different Surfaces

Suppose you were doing an investigation to find out whether the kind of surface on which a windup toy is put makes a difference in how far the toy moves.

Before doing the investigation, determine the following:

- What will be changed?
- What will be kept the same?
- What will be measured?